

# **ACADEMIC REGULATIONS (R-22) FOR B.TECH. PROGRAMMES INCLUDING HONORS AND MINORS**

(under Choice Based Credit System in line with NEP 2020 - effective from 2022-23 admitted batch)

(Revised based on approval in 21<sup>st</sup> meeting of the Academic Council held on 28.10.2023)



**GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING**

**(Autonomous)**

Madhurawada, Visakhapatnam 530048

**Affiliated to Andhra University, Visakhapatnam**

# ACADEMIC REGULATIONS FOR B.Tech. Programmes including Honors / Minor Programmes

(Under Choice Based Credit System effective from 2022-23 admitted batch)  
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These Regulations shall be called the “Gayatri Vidya Parishad College of Engineering (Autonomous) Regulations 2022 (R-22) for the award of B.Tech. Degree”.

These regulations shall be applicable for students enrolling for B.Tech. degree programmes at the Institute from Academic Year 2022-23.

The admission of students shall be as per Govt. of Andhra Pradesh rules.

The medium of instruction for course work and examinations at the Institute shall be English.

## 1. Award of the Degree/ Degree with Minor specialization/ Degree with Honors

**Specialization:** A student will be declared eligible for the award of B.Tech. degree if he/she fulfills the following:

- i. Pursues a course of study in not less than four and not more than eight consecutive academic years.
- ii. After eight academic years from the year of their admission, he/she shall forfeit their seat in B.Tech course and their admission stands cancelled.
- iii. Registers for 160 credits and must secure all the 160 credits.
- iv. Registers and pass in all the non-credit mandatory courses.
- v. A student shall be eligible for the award of B.Tech degree with Minor if he/she earns 12 credits in addition to 160 credits.
- vi. A student shall be eligible for the award of B.Tech degree with Honors if he/she earns 15 credits in addition to the 160 credits within 4 years duration.

## 2. Structure of the B.Tech. program:

S.No.	Category	Code	Credits
1	Humanities and Social science including Management courses	HSMC	10.5
2	Basic Science courses	BSC	21
3	Engineering Science courses	ESC	24
4	Professional Core Courses	PCC	51
5	Open Elective Courses	OEC	12
6	Professional Elective courses	PEC	15
7	Project work, Internship, Seminar	PROJ	16.5
8	Mandatory courses (Non-credit)	MC	-
9	Skill oriented Courses	SoC	10
<b>Total Credits</b>			<b>160</b>

The credits are allotted as:

- 1 Hr. Lecture (L) per week - 1 credit
- 1 Hr. Tutorial (T) per week - 1 credit
- 1 Hr. Practical (P) per week - 0.5 credits.

## 2.1 Semester-wise structure:

Semester	Composition		Credits
<b>0</b>	Induction Programme (2-3 weeks)		<b>0 Credits</b>
<b>I</b>	4 / 5 Theory + 4 Labs (19.5 Credits)	Includes Engineering Workshop (1-0-4) / Engineering Drawing (1-0-4) Non-Credit Mandatory Course- I+ NCC/NSS/Social activities (2 hrs/week)	<b>39 Credits</b>
<b>II</b>	5 / 4 Theory + 4 Labs (19.5 Credits)		
<b>III</b>	5 Theory + 4 Labs (21.5 Credits)	Includes Design Thinking & Innovation, Programming with Python, Non-Credit Mandatory Course-II, Skill oriented Courses-I, II NCC/NSS/Social activities (2 hrs / week) during III sem	<b>43 Credits</b>
<b>IV</b>	5 Theory + 4 Labs (21.5 Credits)		
Intern-I: 2 Months Internship (Mandatory) during summer vacation (1.5 Credits)			
<b>V</b>	3 Theory + 3 Labs + Professional Elective-I + OE-I+ Intern-I (21.5 Credits)	Includes Non-Credit Mandatory Courses - III, IV Skill oriented Courses-III, IV	<b>43 Credits</b>
<b>VI</b>	3 Theory + 4 Labs + Professional Elective-II + OE-II (21.5 Credits)		
Intern-II: 2 Months Industrial/Research Internship (Mandatory) during summer vacation (3 Credits)			
<b>VII</b>	1 Theory + 1 Lab + Professional Electives – III, IV, V + Open Elective – III, IV + Industrial/Research Internship two Months (Mandatory) after VI Semester	Includes Skill oriented Courses-V	<b>23 Credits</b>
<b>VIII</b>	Project (Project work / Internship in Industry)		<b>12 Credits</b>
<b>Total Credits for regular programme</b>			<b>160 Credits</b>

Non-credit mandatory courses: Environmental Sciences, Human Values & Professional Ethics, Indian Constitution, Essence of Indian Traditional Knowledge

2.2. Students opting for Honors shall complete 5 courses from the prescribed list during IV to VII Semesters by registering for a minimum of one course in each semester and earn 15 credits.

2.3. Students opting for Minors shall complete 4 courses from the prescribed list during IV to VII Semesters by registering for a minimum of one course in each semester and earn 12 credits.

**3. Student Induction Programme:** There will be mandatory student induction programme for freshers for two to three weeks before the commencement of first semester. Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations etc.

**4.** A student shall register for courses in each semester offered by the concerned department under

Choice Based Credit System (CBCS). The Open Electives are offered to students of all branches in general. However, a student shall choose an open elective from the list in such a manner that he/she has not studied the same course during the Programme.

5. All the students shall register for NCC/NSS/Social activities. A student will be required to participate in an activity for two hours in a week during second and third semesters. Grade shall be awarded as Satisfactory or Unsatisfactory in the mark sheet on the basis of participation, attendance, performance and behavior. If a student gets an unsatisfactory Grade, he/she shall repeat the above activity in the subsequent years, in order to complete the degree requirements.
6. A student shall be permitted to pursue up to a maximum of 20% of total credits (i.e., 32 Credits out of a total 160 credits) from elective courses under MOOCs during B.Tech. programme. Every student shall mandatorily complete a minimum one course under MOOCs. Each of the courses must be of a minimum 12 weeks in duration. One faculty in-charge is nominated for each course to monitor the registration and progression of the student. Attendance will not be counted for courses under MOOCs. The Head of the department shall notify the list of such courses at the beginning of the semester. The student has to pursue and acquire a certificate for a course under MOOCs from the organizations/agencies approved by the BoS in order to earn the 3 credits within the same semester. Letter grade "E" shall be awarded in case of attendance grade for online courses (under MOOCs).
7. The students shall register for professional and open elective courses at the beginning of the semester. There shall be a limit on the minimum and maximum number of registrations based on class / section strength.
8. Students shall undergo mandatory summer internships for a minimum of six weeks duration each at the end of second and third year of the Programme. There shall also be mandatory full internship in the final semester of the Programme. (implementation shall be in line with the guidelines of APSCHE / affiliating University).
9. **Attendance Requirements:**
  - i. A student shall be eligible to appear for end semester examinations if he/she acquires a minimum of 75% of attendance in aggregate of all the subjects in a semester.
    - In the case of students who participate in activities like NSS, NCC, sports, intercollegiate tournaments conducted at National level/State Level/ University Level with prior approval of the Principal, the candidate may be deemed to have attended the college during the actual period of such activity, solely for the purpose of attendance.
    - Participating in the seminar, workshop, conference with prior approval of the Principal, the candidate may be deemed to have attended the college during the actual period of such activity, solely for the purpose of attendance permission. The maximum period of such events is limited to 10 days.
    - In the case of students admitted under special circumstances (late admission / transfer etc.), the candidate shall attend at least 50% of the total classes held during semester and shall have attended at least 75% of the total classes held from the date of admission.
  - ii. Condonation for shortage of attendance in aggregate up to 10% (65% and above and below 75%) in each semester may be granted on medical grounds. A stipulated fee shall be payable to the college towards condonation of shortage of attendance.
  - iii. Students whose shortage of attendance is not condoned in any semester are detained and are not eligible to take their end semester examination of that class and their registration shall stand cancelled.
  - iv. A student will not be promoted to the next semester unless he/she satisfies the attendance

requirements of the present semester, as applicable. They shall seek readmission and continue his course of study from that semester when offered next.

- v. Attendance against each course will be indicated in the marks memo by a letter grade as follows:

Attendance	Grade
90% and above	A
75% to 89%	B
65% to 74%	C
below 65%	D

Letter grade “E” shall be awarded in case of attendance grade for online courses / any other certificate course offered by external agency.

### 10. Method of Evaluation:

The performance of a student in each semester shall be evaluated through Continuous Internal Evaluation and End Semester Examination. The student shall earn the credits in the respective courses by obtaining at least the marks as specified in the pass criteria given below:

S. No.	Type of course	Continuous Internal Evaluation	End Semester Examination (3 hours)		Pass Criteria
			Max. marks (Paper setting)	Evaluation	
1	Theory Courses	30 Marks  Two tests each for 20 marks. 2:1 weighted averaged marks with the higher score carrying a weightage of 2 shall be considered. Four assessments by at least any two of the following methods each for 10 marks and average shall be considered. (Assessment Methods: Assignment / Quiz / Term paper / Tutorial / Surprise test / seminar / Open book test / Case study / Lab activity / Projects /Any other Teacher specific method).	70 Marks (External)	Double valuation (Internal and External)	40% (28 marks) from End semester and 40% (40 marks) on aggregate from Internal and End semester Examination put together
2	Professional Elective / Open Elective	30 Marks  (same as that for Theory course in S. No. 1)	70 Marks (Internal)	Single valuation (Internal)	40% (28 marks) from End semester and 40% (40marks) on aggregate from Internal and End semester Examinations put together
3	Practical Courses Including Engg. Drawing and Engg. Workshop,	50 Marks  25 marks (day-wise performance including observation, viva, record / report etc.) 25 marks (from internal examination at the end of each cycle). Average marks shall be considered in each component	50 Marks (External)	Single Valuation (External)	50% (25 marks) from End semester Examination and 50% (50 marks) on aggregate from Internal and End semester Examinations put together.

4	Design Thinking & Innovation	50 Marks Design thinking phase-wise performance assessment	50 Marks (Internal)	Single Valuation (Internal)	50% (25 marks) from End semester Examination and 50% (50 marks) on aggregate from Internal and End semester Examinations put together.
5	Skill Oriented Courses	-- -	100 Marks (Internal)	Single valuation (Internal) (Lab Examination to be conducted by concerned teacher and a senior expert in the subject from the same department)	50% (50 Marks) from End semester Examination
6	Non-credit Mandatory courses	-----	100 Marks (Internal)	Single valuation (Internal)	40% (40 Marks) from End Semester Examination.  No marks or letter grade shall be allotted for all the non-credit mandatory courses.
7	Summer Internships / Community Service Project	---	100 Marks (Internal)	Through an Internal committee (comprising of HoD, Supervisor and a senior faculty of the department) based on Report (50%), Presentation and Viva-voce (50%).	50% (50 Marks) from Report, Presentation and Viva-voce.
8	Project Work	50 Marks (Two Mid-Term evaluations each for 25 Marks based on the progress, through an Internal committee comprising of HoD, Project Supervisor and a senior faculty of the department.	50 Marks (External)	External (based on the report, Presentation and Viva-voce examination).	50% (25 marks) from End semester Examination and 50% (50 marks) on aggregate from Internal and End semester Examinations put together.

### 11. Valuation of scripts:

For both single and double valuation, a chief examiner shall be appointed for each theory course to monitor the valuation process and evaluate atleast 10% of scripts per bundle at random for which the marks awarded by the chief examiner shall be final.

In case of double valuation, in addition to the above,

- (i) If the difference between the first and second valuations is less than or equal to 10 marks (15% of 70 marks), the better of the two valuations shall be awarded.
- (ii) If the difference between the first and second valuations is more than 10 marks (15% of 70 marks), the chief examiner shall value the script. Out of the three valuations, the average of marks obtained in third valuation and the marks obtained nearer to third valuation out of first two valuations shall be considered.

### 12. Supplementary examinations:

Supplementary examinations for the odd semester shall be conducted with the regular examinations of even semester and vice versa.

If a student fails in Design Thinking and Innovation / Internship (Industrial or Research or Community Service Project) / final semester Project Work, the student shall appear for supplementary examination as and when conducted.

### 13. Revaluation:

Revaluation of any theory subject / course shall be entertained within a stipulated period on payment of specified fee.

### 14. Withholding of Result:

The result of a student in a semester shall be withheld and not declared if the student has disciplinary action pending against him / her.

### 15. Promotion Rules:

A student shall fulfill both the following attendance and credit requirements for promotion:

a) *Attendance requirements:*

A student shall fulfill the minimum attendance requirements in every semester for promotion to next semester.

b) *Credit requirements:*

i. A student will be promoted from IV to V semester if he/she fulfills the academic requirement of atleast 40% of credits up to either III semester (out of 60.5 credits) or IV semester (out of 82 credits) from all the examinations, whether or not the candidate takes the examinations and secures prescribed minimum attendance in IV semester.

ii. A student shall be promoted from VI to VII semester if he/she fulfills the academic requirements of atleast 40% of the credits up to either V semester (out of 103.5 credits) or VI semester (out of 125 Credits) from all the examinations, whether or not the candidate takes the examinations and secures prescribed minimum attendance in VI semester.

### 16. Grading:

The marks obtained in each subject (out of 100 marks) will be converted to a corresponding letter grade as given below, depending on the range in which the marks obtained by the student fall.

*Grade Point:* It is a numerical weight allotted to each letter grade on a 10-point scale.

*Letter Grade:* It is an index of the performance of students in a said course.

Grades are denoted by letters A+, A, B, C, D, E and F.

Marks Range		Letter Grade	Grade Point
Theory (including Mandatory courses)	Practical, Drawing, Design Thinking, SoCs, Internships, Project		
≥ 90	≥ 90	A+ (Outstanding)	10
80 - 89	80 - 89	A (Excellent)	9
70 - 79	70 - 79	B (Very Good)	8
60 - 69	60 - 69	C (Good)	7
50 - 59	<sup>#</sup> 50 - 59	D (Fair)	6
<sup>*</sup> 40 - 49	-	E (Satisfactory)	5
-	-	F (Fail)	0
-	-	Ab (Absent)	0

\* Pass mark for Theory courses, # Pass mark for all other courses

**Calculation of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):**

- i. The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e.  $SGPA = \frac{\sum (C_i \times G_i)}{\sum C_i}$   
where,  $C_i$  is the number of credits of the  $i^{\text{th}}$  subject and  $G_i$  is the grade point scored by the student in the  $i^{\text{th}}$  course
- ii. The CGPA will be computed in the same manner taking into account all the courses undergone by a student over all the semesters of a program, i.e.  $CGPA = \frac{\sum (C_i \times S_i)}{\sum C_i}$   
where  $S_i$  is the SGPA of the  $i^{\text{th}}$  semester and  $C_i$  is the total number of credits in that semester
- iii. Both SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.
- iv. While computing the SGPA/CGPA, the subjects in which the student is awarded Zero grade points will also be included.

**17. Award of Degree:**

A. **Eligibility for the award of degree:** A student shall be eligible for the award of the B.Tech. degree if he/she fulfills the following conditions:

- i. Register and successfully complete all the courses prescribed within the stipulated period.
- ii. Earn 160 credits and pass in all non-credit mandatory courses
- iii. Secure satisfactory grade in social activity
- iv. No disciplinary action is pending against him/her
- v. Pay the prescribed fee for all the years

B. **Eligibility for the award of degree with Minor:** A student shall be eligible for the award of degree with Minor in a specific specialization if he/she satisfies conditions i to v cited above (17.A) and earns 12 credits in addition to 160 credits.

C. **Eligibility for the award of degree with Honors:** A student shall be eligible for the award of degree with Honors in a specific specialization if he/she satisfies conditions i to v cited above (17.A) and earns 15 credits in addition to 160 Credits.

The student eligible for award of B.Tech. degree, shall be placed in one of the following:

<b>Class Awarded</b>	<b>CGPA Secured</b>
First Class with Distinction	$\geq 7.5$ (within four years for regular and three years for lateral entry without any supplementary appearance)
First Class	$\geq 6.5$
Second Class	$\geq 5.5$ and $< 6.5$
Pass Class	$\geq 5.0$ and $< 5.5$

**CGPA to Percentage of Marks:** Equivalent percentage of marks =  $(CGPA - 0.5) * 10$



### **18. Re-registration for courses:**

A candidate shall be given one chance to re-register for a maximum of four courses of regular B.Tech. programme. The re-registration is permitted only after completion of VIII semester as and when the subject(s) are offered and prescribed fee is paid. In the event of re-registration, the internal marks and end semester examination marks obtained in the previous attempt are nullified. However, the students who avail this provision are eligible for PASS / SECOND CLASS / FIRST CLASS only.

### **19. Gap Year - concept of Student Entrepreneur in Residence:**

Outstanding students who wish to pursue entrepreneurship are allowed to take a break of one year at any time after I year / II year / III year to pursue entrepreneurship full time. This period shall be counted for the maximum time for graduation. An evaluation committee at the college level shall be constituted to evaluate the proposal submitted by the student and the committee shall decide on permitting the student for availing the Gap Year.

### **20. Curricular Framework for Mandatory Internships**

- i. Two summer internships each with a minimum of six weeks duration, done at the end of second and third years, respectively are mandatory. The internship can be done by the students at local industries, Govt. Organizations, Construction agencies, Industries, Hydel and thermal power projects and also in software MNCs.
- ii. Evaluation of the summer internships shall be through the departmental committee comprising the Head of the Department as chairman and two faculty of the department including the Supervisor. A student will be required to submit a summer internship report to the concerned department and appear for an oral presentation before the departmental committee. The report and the oral presentation shall carry 40% and 60% weightages, respectively.
- iii. In the final semester, the student shall mandatorily undergo internship and parallelly he/she shall work on a project with well-defined objectives. At the end of the semester the candidate shall submit an internship completion certificate and a project report on the work carried out during the internship. The project work shall be evaluated with an external examiner.
- iv. The student internship programs shall be facilitated and monitored through a college level committee with three senior faculty members including supervisor. Completion of internships is mandatory, if any student fails to complete internship, he/she will not be eligible for the award of degree. In such cases, the student shall repeat and complete the internship.

### **21. Curricular Framework for Skill oriented Courses(SoCs):**

- i. Out of the five skill courses two shall be skill-oriented courses from the same domain and shall be completed in second year. Of the remaining 3 skill courses, one shall be necessarily be a soft skill course and the remaining 2 shall be skill-advanced courses either from the same domain or Job oriented skill courses, which can be of inter disciplinary nature.
- ii. The student can choose either the skill courses being offered by the department or to choose a certificate course being offered by industries / Professional bodies / APSSDC or any other accredited bodies as approved by the concerned BoS.
- iii. If a student chooses to take a Certificate Course offered by Industries / Professional bodies / APSSDC or any other accredited bodies, in lieu of the skill advanced course offered by

- the department, the credits shall be awarded to the student upon producing the Course Completion Certificate from the agency / professional bodies as approved by the BoS.
- iv. If a student prefers to take a certificate course offered by external agency, attendance shall be computed by excluding the skill course in all the calculations of mandatory attendance requirements upon producing a valid certificate as approved by the concerned HoD. The student is deemed to have fulfilled the attendance requirement of the course and acquire the credits assigned to the course.
  - v. The grades / marks given for a course by external agencies will be converted to the equivalent grades / marks of GVPCE(A).

## **22. Community Service Project (Experiential learning through community engagement):**

Community Service Project is an experiential learning strategy that integrates meaningful community service with instruction, participation, learning and community development. Community Service Project is meant to link the community with the college for mutual benefit.

### **Objectives**

- Community Service Project should be an integral part of the curriculum, as an alternative to the Summer Internships / Apprenticeships / On the Job Training, whenever there is an exigency when students cannot pursue their summer internships. The specific objectives are;
- To sensitize the students to the living conditions of the people who are around them,
- To bring about an attitudinal change in the students and help them to develop societal consciousness, sensibility, responsibility and accountability
- To make students aware of their inner strength and help them to find new /out of box solutions to the social problems.
- To make students socially responsible citizens who are sensitive to the needs of the disadvantaged sections.
- To help students to initiate developmental activities in the community in coordination with public and government authorities.
- To develop a holistic life perspective among the students by making them study culture, traditions, habits, lifestyles, resource utilization, wastages and its management, social problems, public administration system and the roles and responsibilities of different persons across different social systems.

### **Implementation of Community Service Project**

- Every student should put in a minimum of **180 hours** for the Community Service Project during the summer vacation.
- Each class/section should be assigned with a mentor
- Specific Departments could concentrate on their major areas of concern.
- A log book has to be maintained by each of the student, where the activities undertaken / involved to be recorded.
- The log book has to be countersigned by the concerned mentor/faculty incharge.
- Evaluation to be done based on the active participation of the student and grade could be awarded by the mentor/faculty member.
- The final evaluation to be reflected in the grade memo of the student.
- The Community Service Project should be different from the regular programmes of NSS / NCC / Green Corps/Red Ribbon Club, etc.
- Minor project report should be submitted by each student. An internal Viva shall also be conducted by a committee constituted by the principal of the college.

- Award of marks shall be made as per the guidelines of Internship/apprentice/ on the job training.

### **23. Curricular Framework for Honors Programme**

- i. Students of a department / discipline are eligible to opt for Honors Programme offered by the same department / discipline and can select the additional and advanced courses from their respective branch.
- ii. Attendance will not be monitored for MOOC courses. Students have to acquire a certificate from the agencies approved by the BoS with grading or marks or pass/fail. If the MOOC course is a pass/fail course without any grades, the grade shall be assigned as per the recommendations of the Academic Council.
- iii. It is the responsibility of the student to acquire / complete prerequisites before taking the respective course. The courses offered in each pool shall be domain specific courses and advanced courses. Each pool can have theory as well as laboratory courses. If a course comes with a lab component, that component has to be cleared separately.
- iv. If a student has already studied any course from the list prescribed for B.Tech (Honors), he/she shall be permitted to choose any other course listed under professional electives of the respective B.Tech programme.

### **24. Curricular Framework for Minor Programme:**

- i. Students who are desirous of pursuing their special interest areas other than the chosen discipline of Engineering may opt for minor specialization offered by a department other than their parent department. Students can also opt for Industry relevant tracks of any branch to obtain the Minor Degree.
- ii. A student shall be permitted to choose only those courses that he/she has not studied in any form during the Programme.
- iii. Attendance will not be monitored for MOOC courses. Student has to acquire a certificate from the agencies approved by the BoS with grading or marks or pass/fail. If the MOOC course is a pass/fail course without any grades, the grade to be assigned as decided by the academic council.
- iv. Student can opt courses from the Industry relevant minor specialization or courses offered by Andhra Pradesh State Skill Development Corporation (APSSDC) / an external agency recommended and approved by concerned BoS and should produce course completion certificate.

### **25. Other Common guidelines for Honors / Minor Programme:**

- i. A student shall be permitted only to register either for Honors or for Minor programme.
- ii. administration reserves the right to decide on the minimum enrolments for offering Honors / Minor program by the department. If a minimum enrolments criterion is not met, then the students may be permitted to register for the equivalent MOOC courses as approved in BoS.
- iii. A student shall be permitted to register for Honors program at the beginning of IV semester subject to a maximum of two additional courses per semester, provided that the student must have acquired 7.5 CGPA upto the end of II semester without any backlogs. In case the III semester results are declared after the commencement of the IV semester, and if a student fails to acquire 7.5 CGPA upto III semester or failed in any of the courses, his/her registration for Honors program stands cancelled and he/she shall

continue with the regular Programme. The CGPA of 7.5 has to be maintained in the subsequent semesters of regular B.Tech. programme, without any backlog in order to keep the registration for Honors programme active.

- iv. The admission into Honors / Minor shall be strictly on the merit basis only. In case of a tie the GPA secured in the core courses shall be taken into consideration.
- v. A student shall be permitted to appear for the end semester examinations, provided he/she puts up a minimum attendance of 75% in each course registered. However, condonation for shortage of attendance between 65-74% may be given on medical grounds. The student concerned will be permitted to take the end semester examination, on payment of condonation fee. Attendance against each course will be indicated in the marks memo by a letter grade as that of regular B.Tech. programme.
- vi. The internal and end semester evaluation for Theory, Practical and Mini-Project shall be same as that of similar type of courses in regular B.Tech. programme.
- vii. The Honors / Minor degree will be awarded only after successfully acquiring stipulated Credits. A separate CGPA shall be given for the Honors / Minor programme and no Class / Division will be awarded. Withdrawal from Honors / Minor programme is allowed in any semester.
- viii. If a student drops or is terminated from the Honors program, the additional credits so far earned cannot be converted into free or core electives; they will remain extra. These additional courses will find mention in the transcript (but not in the degree certificate). In such cases, the student may choose between the actual grade or a “pass (P)” grade and also choose to omit the mention of the course as per the following: (i) All the courses done under the dropped Honor will be shown in the transcript and (ii) None of the courses done under the dropped Honor will be shown in the transcript (implementation shall be in line with the guidelines of APSCHE / affiliating University).
- ix. In case a student (i) fails to meet attendance requirement in any subject registered under Honors programme or (ii) fails in any subject registered under Honors programme or (iii) fails to meet the 7.5 CGPA requirement at any point after registration, he/she will be dropped from the list of students eligible for degree with Honors and they will receive B.Tech degree only. However, such students will receive a separate grade sheet mentioning the additional courses completed by them (implementation shall be in line with the guidelines of APSCHE / affiliating University).
- x. If a student gets detained due to attendance shortage / credit shortage in the regular programme, his/ her admission in Honors shall stand cancelled.
- xi. The Honors must be completed simultaneously with regular B.Tech. program within four years.
- xii. The nomenclature and mention of title on the degree certificate for Honors / Minor shall be in accordance with guidelines from the affiliating University.

## **26. Credit Transfer Policy and guidelines for courses under MOOCs (including SoCs):**

- i. Adoption of MOOCs is mandatory, as envisaged in the NEP 2020. As per University Grants Commission (Credit Framework for Online Learning Courses through SWAYAM) Regulation, 2016, the Institution allows up to a maximum of 20% of the total credits (i.e., 32 Credits out of a total 160 credits) from elective courses under MOOCs during B.Tech. programme. Every student shall mandatorily complete a minimum one course under MOOCs.
- ii. Each of the 2 credit / 3 credit course under MOOCs shall be of minimum 8 weeks / 12

weeks duration, respectively. One faculty in-charge shall be nominated for each course to monitor the registration and progression of the student. Attendance will not be counted for courses under MOOCs.

- iii. The Head of the department shall notify the list of such courses in advance. The student has to pursue and acquire a certificate for a course under MOOCs from the organizations / agencies approved by the BoS in order to earn the credits.
- iv. The students may also be permitted to register for a course under MOOCs ahead of the corresponding regular semester based on the start dates of course by external agencies.
- v. If a course under MOOCs is not offered during the specified semester, the same or equivalent course under MOOCs may be offered in blended mode.
- vi. If the external agency is unable to conduct examination or give grades/marks due to any unavoidable circumstances, the college shall conduct examination and give grades/marks.
- vii. In case a student fails in any course under MOOCs offered by college in blended mode, he/she shall appear in supplementary examination as and when conducted by the college.
- viii. In case a student fails in any course under MOOCs offered by external agency, he/she may be permitted to register for the same or equivalent or any other course approved in BoS.
- ix. The grades / marks given for a course under MOOCs by external agencies will be converted to the equivalent grades / marks of GVPCE(A).
- x. If the external agency declares only Pass without any grade / marks for a course under MOOCs, the college shall award minimum grade corresponding to Pass criteria.

## **27. Academic Bank of Credits (ABC):**

The Institution shall implement Academic Bank of Credits (ABC) inline with the Affiliating University to promote flexibility in curriculum as per NEP 2020 to

- i. provide option of mobility for learners across the universities of their choice. In case of students seeking admission through transfer from other institutes, for the credits earned so far and available in the ABC, equivalences will be drawn with the Course structure in force as per the prevailing regulations and will be considered for transfer of credits as per the approvals of BoS and Academic Council. The decision of the Academic Council is final in case of any ambiguity.
- ii. provide option to gain the credits through MOOCs from approved digital platforms.
- iii. facilitate award of certificate/diploma/degree in line with the accumulated credits in ABC
- iv. execute Multiple Entry and Exit system with credit count, credit transfer and credit acceptance from students' account.

## **28. Multiple Entry / Exit Option**

### **(a) Exit Policy:**

The students can choose to exit the four-year programme at the end of first/second / third year.

**i) UG Certificate** in (Field of study/discipline) - Programme duration: First year (first two semesters) of the undergraduate programme, 40 credits (39 credits at the end of I year and another course for 1 credit), followed by an additional exit 10-credit bridge course(s) lasting two months, including at least 6- credit job-specific internship/ apprenticeship that would help the candidates acquire job-ready competencies required to enter the workforce.

**ii) UG Diploma** (in Field of study/discipline) - Programme duration: First two years (first four

semesters) of the undergraduate programme, 80 credits followed by an additional exit 10-credit bridge course(s) lasting two months, including at least 6- credit job-specific internship/apprenticeship that would help the candidates acquire job-ready competencies required to enter the workforce.

**iii) Bachelor of Science** (in Field of study/discipline) i.e., B.Sc. Engineering in (Field of study/discipline)- Programme duration: First three years (first six semesters) of the undergraduate programme, 120 credits.

**(b) Entry Policy:**

Modalities on multiple entry by the student into the B.Tech. programme will be as per the directions of the affiliating University and regulatory authorities from time to time.

**29. Student Transfers:** Student transfers shall be as per the guidelines issued by the Government of Andhra Pradesh and the concerned Universities from time to time.

**General:**

- i. Where the words *he, him, his*, occur, they imply *she, her, hers*, also.
- ii. The academic regulations should be read as a whole for the purpose of any interpretation.
- iii. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Chairman, Academic Council is final.
- iv. The College may change or amend the Academic regulations or syllabi at any time as per the directions of the Academic Council and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the College.

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## ACADEMIC REGULATIONS FOR STUDENTS ADMITTED THROUGH LATERAL ENTRY

The duration of the programme for the degree of B.Tech. for lateral entry students will be three academic years, with two semesters in each year. However, if a student cannot complete within 3 years, he/she can do so by taking more time but not more than 6 years from the year of first admission.

### 1. Structure of the Programme:

Semester	Composition		Credits
III	5 Theory + 4 Labs (21.5 Credits)	Includes Design Thinking & Innovation, Programming with Python, Non-Credit Mandatory Course-II, Skill oriented Courses-I, II NCC/NSS/Social activities (2 hrs / week) during III sem	43 Credits
IV	5 Theory + 4 Labs (21.5 Credits)		
Intern-I: 2 Months Internship (Mandatory) during summer vacation (1.5 Credits)			
V	3 Theory + 3 Labs + Professional Elective-I + OE-I+ Intern-I (21.5 Credits)	Includes Non-Credit Mandatory Courses - III, IV Skill oriented Courses-III, IV	43 Credits
VI	3 Theory + 4 Labs + Professional Elective-II + OE-II (21.5 Credits)		
Intern-II: 2 Months Industrial/Research Internship (Mandatory) during summer vacation (3 Credits)			
VII	1 Theory + 1 Lab + Professional Electives – III, IV, V + Open Elective – III, IV + Industrial/Research Internship two Months (Mandatory) after VI Semester	Includes Skill oriented Courses-V	23 Credits
VIII	Project (Project work / Internship in Industry)		12 Credits
<b>Total Credits for regular programme</b>			<b>121 Credits</b>

Non-credit mandatory courses: Human Values & Professional Ethics, Indian Constitution, Essence of Indian Traditional Knowledge

## **2. Promotion Rules:**

A student shall fulfill both the following attendance and credit requirements for promotion:

### *a) Attendance requirements:*

A student shall fulfill the minimum attendance requirements in every semester for promotion to next semester.

### *b) Credit requirements:*

A student shall be promoted from VI to VII semester if he/she fulfills the academic requirements of at least 40% of the credits up to either V semester (out of 64.5 credits) or VI semester (out of 86 credits) from all the examinations, whether or not the candidate takes the examinations and secures prescribed minimum attendance in VI semester.

## **3. Eligibility for admission into Honors programme:**

A student shall be permitted to register for Honors program at the beginning of IV semester subject to a maximum of two additional courses per semester, provided that the student must have acquired 7.5 CGPA upto the end of III semester without backlogs. In case the III semester results are declared after the commencement of the IV semester, and if a student fails to acquire 7.5 CGPA in III semester or failed in any of the courses, his/her registration for Honors program stands cancelled and he/she shall continue with the regular Programme. The CGPA of 7.5 has to be maintained in the subsequent semesters of regular B.Tech. programme, without any backlog in order to keep the registration for Honors programme active.

## **4. Minimum Academic Requirement for the award of degree:**

**A. Eligibility for the award of degree:** A student shall be eligible for the award of the B.Tech. degree if he/she fulfills the following conditions:

- i. Register and successfully complete all the courses prescribed within the stipulated period.
- ii. Earn 121 credits and pass in all non-credit mandatory courses
- iii. Secure satisfactory grade in social activity
- iv. No disciplinary action is pending against him/her
- v. Pay the prescribed fee for all the years

**B. Eligibility for the award of degree with Minor:** A student shall be eligible for the award of degree with Minor in a specific specialization if he/she satisfies conditions i to v cited above (4.A) and earns 12 credits in addition to 121 Credits.

**C. Eligibility for the award of degree with Honors:** A student shall be eligible for the award of degree with Honors in a specific specialization if he/she satisfies conditions i to v cited above (4.A) and earns 15 credits in addition to 121 Credits.

## **5. Re-registration for courses:**

A candidate shall be given one chance to re-register for a maximum of three courses of regular B.Tech. programme. The re-registration is permitted only after completion of VIII semester as and when the subject(s) are offered and prescribed fee is paid. In the event of re-registration, the internal marks and end semester examination marks obtained in the previous attempt are nullified. However, the students who avail this provision are eligible for PASS / SECOND CLASS / FIRST CLASS only.



6. **Multiple Entry/Exit option:** The provisions for Multiple Entry and Exit policy shall be as per the guidelines from the affiliating University and regulatory authorities from time to time.
7. **All other regulations shall be same as that of the regulations applicable to regular students.**

**General:**

- i. Where the words *he, him, his*, occur, they imply *she, her, hers*, also.
- ii. The academic regulations should be read as a whole for the purpose of any interpretation.
- iii. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Chairman, Academic Council is final.
- iv. The College may change or amend the Academic regulations or syllabi at any time as per the directions of the Academic Council and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the College.

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## **TRANSITORY REGULATIONS FOR RE-ADMITTED STUDENTS**

1. When a student is detained due to lack of credits / shortage of attendance, he / she may be re-admitted after fulfillment of academic requirements and as and when the semester is offered. In such case, he / she shall be in the academic regulations into which he / she is readmitted.
2. Credit equivalences shall be drawn for the students re-admitted into latest regulations from the earlier regulations. A Student has to register for the substitute / compulsory / pre-requisite courses identified by the respective Boards of Studies.
3. The student has to register for substitute courses, attend the classes and pass in examination and earn the credits.
4. The student has to register for compulsory courses, attend the classes and pass in examination
5. For the subject(s) failed in earlier semesters (before re-admission), the student has to acquire credits from the supplementary examinations as and when conducted.
6. In case of transferred students from other University / College, an equivalent course structure shall be prepared by the BoS of the respective department considering the suitable credits already acquired at the previous institution.
7. The students detained in earlier Regulations (under JNTU-K affiliation) and to be readmitted into R-22 Regulations (under AU affiliation) shall also follow the above guidelines subjected to the approval from both the Universities.
8. The decision of the Principal is final on any other clarification in this regard.

### **General:**

- i. Where the words *he, him, his*, occur, they imply *she, her, hers*, also.
- ii. The academic regulations should be read as a whole for the purpose of any interpretation.
- iii. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Chairman, Academic Council is final.
- iv. The College may change or amend the Academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the College.

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**MALPRACTICES RULES**  
**DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS**

	<b>Nature of Malpractices/Improper conduct</b>	<b>Suggested Punishment</b>
	<i>If the candidate:</i>	
1. (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, Cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which he is appearing but has not made use of (material shall include any marks on the body of the candidate which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
1. (b)	Gives assistance or guidance or receives it from any other candidate orally or by any other body language methods or communicates through cell phones with any candidate or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the candidates involved. In case of an outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the candidate is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that Semester/year. The Hall Ticket of the candidate is to be cancelled.
3.	Impersonates any other candidate in connection with the examination.	The candidate who has impersonated shall be expelled from examination hall. The candidate is also debarred and forfeits the seat. The performance of the original candidate who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the Answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the Chief Superintendent/Assistant – Superintendent / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.

	words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	
7.	Leaves the exam hall taking away answer script or intentionally tears the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.
9.	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the Committee appointed by the Principal for further action and impose suitable punishment.	

**Suitable punishment shall be awarded based on the recommendations of a committee constituted in this regard.**






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# Ragging

Prohibition of ragging in educational institutions Act 26 of 1997

## Salient Features

- Ragging within or outside any educational institution is prohibited.
- Ragging means doing an act which causes or is likely to cause Insult or Annoyance of Fear or Apprehension or Threat or Intimidation or outrage of modesty or Injury to a student.

	Imprisonment upto		Fine Upto
Teasing, Embarrassing and Humiliation	 6 Months	+	Rs. 1,000/-
Assaulting or Using Criminal force or Criminal intimidation	 1 Year	+	Rs. 2,000/-
Wrongfully restraining or confining or causing	 2 Years	+	Rs. 5,000/-
Causing grievous hurt, kidnapping or Abducts or rape or committing unnatural offence	 5 Years	+	Rs. 10,000/-
Causing death or abetting suicide	 10 Months	+	Rs. 50,000/-

Ragging  
ABSOLUTELY  
NO TO RAGGING

1. Ragging is prohibited as per Act 26 of A.P. Legislative Assembly, 1997.
2. Ragging entails heavy fines and/or imprisonment.
3. Ragging invokes suspension and dismissal from the College.
4. Outsiders are prohibited from entering the College and Hostel without permission.
5. Girl students must be in their hostel rooms by 7.00 p.m.
6. All the students must carry their Identity Cards and show them when demanded
7. The Principal and the Wardens may visit the Hostels and inspect the rooms any time.